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— Among recent Bulletins of the Census are the statistics of the fisheries of the Great Lakes for 1879, prepared by Mr. F. W. True from notes furnished by Mr. Ludwig Kumlien; the total value is \$1,784,050. The production of anthracite coal in Pennsylvania for 1880 was 27,433,329 tons, a gain of 75.9 per cent. over 1870. The production of salt was a little less in 1880 than in 1870. Of cotton 5,737,257 bales were produced in 1880, Mississippi producing most, Georgia being the next heaviest producer.

— Professor Snow of the University of Kansas and his party, recently had a narrow escape from death, at the hands of the hostile Apache Indians, in New Mexico. They were besieged for three days in the water cañon of the Magdalena mountains, and made their escape on foot to Socorro, after concealing their personal property. On the road they passed a party of freighters lying dead beside their wagons, victims of the Indians' murderous propensities.

— Two of the parties of the U. S. Geological Survey under Major J. W. Powell, are at Fort Wingate, N. Mex. These are under the immediate direction of Messrs. Thompson and Gore. Mr. and Mrs. James Stevenson, of the same survey, are also there, preparing for an investigation into the archæology and ethnology of the surrounding region. There is some risk that the operations of these parties will be interfered with by the hostile Apaches.

Carlile P. Patterson, Superintendent of the U. S. Coast Survey, is dead. His successor has not yet been appointed, but it is anticipated that it will be Julius E. Hilgard, for a long time the able second officer of the survey.

— Mr. G. Brown Goode has been appointed, by Professor Baird, Curator of the National Museum, Washington. An excellent appointment.

— The German Association of Naturalists and Physicians was to hold its meetings at Salzburg from Sept. 17 to 24.

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## PROCEEDINGS OF SCIENTIFIC SOCIETIES.

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE.— The thirtieth meeting was held at Cincinnati, Aug. 17–23, 1881. The meeting was as largely attended as any ever held except the last (Boston) meeting, and everything was done by the hospitable citizens of Cincinnati to render the session pleasant and profitable. The next meeting will be held at Montreal. Dr. J. W. Dawson, of Montreal, was elected president, and William Saunders, Esq., of London, Canada, general secretary, for the next year.

Following are the titles of papers read on biology, geology and kindred sciences:

- On the ancient Japanese bronze bells. Edw. S. Morse.  
 On changes in Mya and Lunatia since the deposition of the New England Shell-heaps. Edw. S. Morse.  
 On worked shells in New England Shell-heaps. Edw. S. Morse.  
 Natural and industrial history of the White Pine in Michigan. Wm. Hosea Ballou.  
 Phenomena of growth in plants. D. P. Penhallow.  
 On the life duration of the Heterocera (moths). J. A. Lintner.  
 On the length of life of Butterflies. W. H. Edwards.  
 How does the Bee extend its tongue. A. J. Cook.  
 The Syrian Bees. A. J. Cook.  
 Carbolic acid as a preventive of Insect ravages. A. J. Cook.  
 On certain habits of *Heliconia charitonia*. W. H. Edwards.  
 Historic notes on Cosmic Physiology. T. Sterry Hunt.  
 The uncivilized mind in the presence of higher phases of civilization. Otis T. Mason.  
 The best method of mounting whole chick embryos. Charles Sedgwick Minot.  
 Note on whether man is the highest animal. Charles Sedgwick Minot.  
 Note on the segmentation of the vertebrate body. Charles Sedgwick Minot.  
 The motion of roots in germinating Indian corn. W. J. Beal.  
 Exhibition of some archaeological specimens from Missouri. S. H. Trowbridge.  
 Animal myths of the Iroquois. Mrs. Erminnie A. Smith.  
 A remarkable invasion of Northern New York by a Pyralid insect (*Crambus vulgagellus*). J. A. Lintner.  
 Recent discoveries, measurements and temperature observations made in Mammoth Cave, Ky. H. C. Hovey.  
 A remarkable case of retention of heat by the earth. H. C. Hovey.  
 Coal dust as an element of danger in mining; shown by the late explosion in the Albion mines in Nova Scotia. H. C. Hovey.  
 A revision of the anatomy of the ethmoid bone in the Mammalia. Harrison Allen.  
 The life unit in plants. Byron D. Halsted.  
 On *Bopyrus manhattensis* from the gill-cavity of *Palæmonetes vulgaris* Stimpson. Carl F. Gissler.  
 The stone images and idols of the mound-builders. Wm. McAdams.  
 Some remarkable relics from the mounds of Illinois. Wm. McAdams.  
 Stone implement showing glacier marks. Wm. McAdams.  
 The occurrence of Cretaceous fossils near mouth of Illinois river. Wm. McAdams.  
 Mound-builders' skeletons. Watson C. Holbrook.  
 Stone implements in the drift. Watson C. Holbrook.  
 Prehistoric hieroglyphics. Watson C. Holbrook.  
 A contribution to Croll's theory of secular climatal changes. W. J. McGee.  
 Influence of forests upon streams. David D. Thompson.  
 Mineralogical Notes. Benjamin Silliman.  
 On the influence of the structure of the nerve-fibres upon the production and conduction of nerve-force. H. D. Schmidt.  
 The recurrence of faunas in the Devonian rocks of New York. H. S. Williams.  
 Note on some fish remains from the Upper Devonian of New York. H. S. Williams.  
 Some phenomena in the conjugation of the infusorium *Actinophrys* sol. J. D. Cox.  
 Note on specimens of Ptilophyton and associated fossils collected by Dr. H. S. Williams in the Chemung shales of Ithaca, N. Y. J. W. Dawson.  
 A contribution to the study of Bacterial Organisms, as commonly found on exposed mucous surfaces and in the alimentary canal of healthy individuals. Geo. M. Sternberg.  
 On recent deep-sea soundings in the Gulf of Mexico and Caribbean sea, by the U. S. Coast Survey. J. E. Hilgard.  
 A new and improved freezing Microtome. Thomas Taylor.  
 Bacteria and Micrococci, and their relations to plant culture. Thomas Taylor.

- The Berea Grit of Ohio. Edward Orton.  
 The Gold-bearing drift of Indiana. Geo. Sutton.  
 On the amount of Glacial erosion in Ohio, Indiana, and Illinois, with some deductions therefrom. E. W. Claypole.  
 On the discovery of an Archæmediform Tenestellid in the Upper Silurian rocks of Ohio. E. W. Claypole.  
 Life-history of the Buckeye Stem-borer (*Sericoris instrutana* Clem.) E. W. Claypole.  
 Some needed reforms in the use of Botanical Terms. Charles E. Ridler.  
 The excavation of the Grand cañon of the Colorado river. C. E. Dutton.  
 On the cause of the arid climate of the far West. C. E. Dutton.  
 Evolution and its place in Geology. Edward S. Edmunds.  
 The evidence from the Drift of Ohio in regard to the origin of Lake Erie. E. W. Claypole.  
 A short study of the features of the region of Lower Great Lakes during the Great River age; or notes on the origin of the Great Lakes of North America. J. W. Spencer.  
 On the inhabitants of N. E. Siberia, commonly called Chukchis and Namollo. W. H. Dall.  
 A lawgiver of the Stone age. Horatio Hale.  
*Ilex cassina*, the black drink of the Southern Indians. John G. Henderson.  
 Was the antelope hunted by the Indians on the prairies of Illinois? John G. Henderson.  
 Agriculture and agricultural implements of the ancient inhabitants of the Mississippi valley. John G. Henderson.  
 Houses of the ancient inhabitants of the Mississippi valley. John G. Henderson.  
 Comparative differences in the Iroquois group of dialects. Mrs. Erminnie A. Smith.  
 Typical thin sections of the rocks of the Cupriferous series in Minnesota. N. H. Winchell.  
 The limited biological importance of synthetic achievements in organic chemistry. Albert B. Prescott.  
 Retarded development in Insects. C. V. Riley.  
 New Insects injurious to American agriculture. C. V. Riley.  
 The egg-case of *Hydrophilus triangularis*. C. V. Riley.  
 On the oviposition of *Prodoxus decipiens*. C. V. Riley.  
 The cocoon of *Gyrinus*. C. V. Riley.  
 Ozark highlands. G. C. Swallow.  
 On the disposition of color—markings of domestic animals. Wm. H. Brewer.  
 On a mesial cusp of the deciduous mandibular canine of the domestic cat, *Felis domestica*. Burt G. Wilder.  
 Remarks on the classification and distribution of Producti. S. H. Trowbridge.  
 The temperature of North German Traps at the time of their extrusion. H. Carmichael.  
 Recent existence of sword-fish, shark and dolphin in the fresh-water pond near Buffalo, N. Y. Wm. Zimmerman.  
 Antiquity of Man in America. W. De Haas.  
 Progress of Archæological Research. W. De Haas.  
 The Mound Builders; an inquiry into their assumed southern origin. W. De Haas.  
 Additional facts on the fertilization of Yucca. Thomas Meehan.  
 On the interpretation of Pictographs by the application of gesture-signs. W. J. Hoffman.  
 An alleged abnormal peculiarity in the history of *Argynnis myrina*. W. H. Edwards.  
 On a convenient form of slide case. Robt. Brown, Jr.  
 On some relations of Birds and Insects. S. A. Forbes.  
 Comparison of Maya dates with those of the Christian era. Cyrus Thomas.  
 Notice of a Fern indigenous to California, but heretofore considered as an introduced hothouse species. Mrs. Leander Stone.  
 Fossil teeth of Mammals from the Drift of Illinois. Wm. McAdams.  
 The Unification of geological nomenclature. Richard Owen.

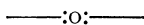
MIDDLESEX INSTITUTE, Malden, Mass., June 17.—The annual field meeting of the institute was held on Bear hill, in the Mid-

dlesex Fells, Stoneham. A large number of guests were present, and the day passed enjoyably. Many plants not previously collected were added to the list of our county flora, and Mrs. P. D. Richards found that rare plant, *Habenaria hookeri*.

June 22.—An exhibition of native plants from Malden, Medford and other parts of the county, was held in Institute Hall, and attracted a large number of visitors.

July 27.—A special exhibition of the native ferns of Middlesex county was given with gratifying success. Mr. Frohock exhibited *Woodwardia angustifolia* from Medford, Mass., found for the first time within the limits of Middlesex county, and Mr. Dame exhibited *Botrychium matricariæfolium* from Stoneham.

Arrangements are partially completed for a course of scientific lectures to be delivered during the winter months.



## SELECTED ARTICLES IN SCIENTIFIC SERIALS.

QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE, July.—On the lymphatic system of the skin and mucous membranes, by E. Klein. The development of the water glands in the leaf of *Saxifraga crustata*, by W. Gardiner. The development of the Spermatozoa, Part II. Helix and Rana, by J. E. Blomfield. On the early development of the anterior part of the wolffian duct and body in the chick, together with some remarks on the excretory system of the Vertebrata, by Adam Sedgwick. Observations on the cranial nerves of Scyllium, by A. Milnes Marshall. On the occurrence of corpuscles in the red vascular fluid of Chætopods, by J. E. Blomfield. Pacinian corpuscles in the pancreas and mesenteric glands of the cat, by V. Harris. Limulus an Arachnid, by E. R. Lankester.

THE GEOLOGICAL MAGAZINE, August.—On the Archæan rocks, by C. Callaway. The Megaceros in Ireland, by W. Williams. The glaciation of the Shetlands, by B. N. Peach and J. Horne.

ANNALES DES SCIENCES NATURELLES, June.—Monograph of the birds of the family Megapodiidæ, by E. Oustalet, 2d part. New researches on the organization and development of Gordiacea, by M. Villot. Description of macrurous Crustacea from great depths of the seas of the Antilles, by A. Milne Edwards.

JENAISCHE ZEITSCHRIFT FÜR NATURWISSENSCHAFT, July 31.—On the muscles of the eye of Ganoids, by H. Schneider. The mouth-arms of Rhizostomæ and their appended organs, by O. Hamann. The development of the middle germ-layer of vertebrates, by O. Hertwig.